BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: Additional Work to Primary Health Center at Ramachandrapura in Ward No 10 Doddabommasandra Vidyaranyapura Sub Division

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Specification No. KBS 4.6.2 page no.16 item no 4.29.2								
	Centring								
	Head Room	Sqm	1	5.4	4		21.60		
	Basic rate							400.00	
	Area weightage 8%							32.00	
	Total						**21.60**	**432**	**9331.20**
2	KSRB 4-6.9 : Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.2, Pg No 17,Item No 4.36								
	Head Room								
	Head Room slab	Sqm	1	20.4		0.15	3.06		
	Basic rate							755.00	
	Area weightage 8%							60.40	
	Total						**3.06**	**815.4**	**2495.12**
3	KSRB 4.2.8 : Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12								
	Head Room								
	C1&CF1 Colum	Cum	8	0.6	0.2	3	2.88		
	Lintel								
	Cut Lintel @D2	Cum	1	1.2	0.2	0.2	0.05		
	Basic rate							6045.00	
	Add lift charges for First Floor							60.00	
	sub total							6105.00	
	Area weightage 8%							488.40	
	Total						**2.93**	**6593.40**	**19305.48**
4	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25. Pg No.19 Item No.4.49.2								
	Head Room								
	Roof Slab	Cum	1	5.8	4.4	0.15	3.83		
	Beams	Cum	2	4.6	0.2	0.45	0.83		
		Cum	2	3.9	0.2	0.45	0.70		
	Basic rate							5497.00	
	Area weightage 8%							439.76	
	Total						**5.36**	**5936.76**	**31809.16**
5	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2								
	Head room								
	Colomn	Cum	Concrete Quantity				2.88		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
		kg	Steel assumed 150 Kg/Cum of Concrete				432.00		
		tonne					**0.43**		
	Lintel	Cum	Concrete Quantity				0.05		
		kg	Steel assumed 125 Kg/Cum of Concrete				6.00		
		tonne					**0.01**		
	Beam	Cum	Concrete Quantity				1.53		
		kg	Steel assumed 150 Kg/Cum of Concrete				191.25		
		tonne					**0.19**		
	Roof Slab	Cum	Concrete Quantity				3.83		
		kg	Steel assumed 125 Kg/Cum of Concrete				478.5		
		tonne					**0.48**		
	Basic rate							70966.00	
	Add lift charges for First Floor							748.00	
	sub total							71714.0	
	Area weightage 8%							5737.12	
	Total						**1.11**	**77451.1**	**85796.48**
6	KSRB 5-14.1: Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.4, Pg No. 27 Item No. 5.27.1								
	Head room								
	outer wall	Sqm	1	11.6		3	34.80		
		Sqm	1	9.2		3	27.60		
	Deduction								
	Door D2	Sqm	-1	0.9		2.1	-1.89		
	Basic rate							912.00	
	Add lift charges for First Floor							35.00	
	sub total							947.00	
	Area weightage 8%							75.76	
	Total						**60.51**	**1022.76**	**61887.21**
7	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 116,Item No.15.16								
	Head room								
	Long Wall	Sqm	2	5.8		3	34.8		
	Short wall	Sqm	2	4.6		3	27.6		
	Deduction								
	D2	Sqm	-1	0.9		2.1	-1.89		
	Basic rate							261.00	
	Add Scaffolding charges for First Floor							12.00	
	sub total							273.00	
	Area weightage 8%							21.84	
	Total						**60.51**	**294.84**	**17840.77**
8	KSRB15-5.1 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications , Pg.No-117, Item No-15.30.								
	Ground Floor								
	Gents toilet	Sqm	1	11.0		2.1	23.0076		
	Ladies toilet	Sqm	1	11.8		2.1	24.6876		
	lab	Sqm	1	24.6		2.1	51.7125		
	dressing room	Sqm	1	23.8		2.1	50.022		
	Doctor Consult room	Sqm	1	14.1		2.1	29.61		
	Waiting area	Sqm	1	12.0		2.1	25.1937		
	Stairs wall	Sqm	1	8.9		2.1	18.7614		
	Lift wall	Sqm	1	8.4		2.1	17.5812		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Deduction								
	D	Sqm	-1	1.8		2.1	-3.78		
	D2	Sqm	-3	0.9		2.1	-5.67		
	D3	Sqm	-4	0.75		2.1	-6.3		
	W1	Sqm	-7	1.5		1.5	-15.75		
	V	Sqm	-4	0.75		0.6	-1.8		
	Basic rate							205.00	
	Area weightage 8%							16.40	
	Total						**207.28**	**221.40**	**45890.91**
9	providing applying two coats of wall putty to **inside plastered walls and ceiling** using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as per specification. Pg No.128 Item No.15.106								
	for Internal plastered portions	Sqm	1	same as Internal plastering			281.12		
	ceiling	Sqm	1	same as plastering for beam + ceiling			170.29		
	Basic rate							78.00	
	Area weightage 8%							6.24	
	Total						**451.41**	**84.24**	**38026.87**
10	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications page no117 item no 15.49.1 . KSRB 15-14.1 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof as per specifications.Pg No 119,Item No15.49.2								
	Ceiling	Sqm		Same as plastering for beam and ceiling			170.29		
	Basic rate							110.00	
	Extra over Item 15-14.1							8.00	
	sub total							118.00	
	Area weightage 8%							9.44	
	Total						**170.29**	**127.44**	**21701.31**
11	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 900x900x 12mm thick fixed on bed of 12mm thick cement mortar for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc including Cost of all materials mortar labour etc complete as per specificationPg no. 109 Item No.14.45.1								
	#REF!								
	Flooring								
	Waiting Area	sqm	1	8.5	3.5		29.76		
	dressing room	sqm	1	3.0	2.9		8.70		
	Doctor Consult room	sqm	1	3.0	2.7		8.10		
	lab	sqm	1	3.6	3.44		12.38		
		sqm	1	2.8			2.83		
	corridor	sqm	1	8.5	0.895		7.58		
	Porch	sqm	1	12.4	2.582		32.12		
			1	13.1	4.345		56.71		
			1	4.0			4.05		
	Gents toilet	sqm	1	1.7	1.289		2.19		
	Ladies toilet	sqm	1	1.7	1.489		2.53		
	Basic Rate							1137.00	
	Area weightage 8%							90.96	
	Total						**166.95**	**1227.96**	**205011.44**
12	KSRB 14.14-5: Providing Ceramic tiles of size 30x30cms 6mm thick of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications.Pg No 108,Item No14.36 .2								
	Gents toilet	sqm	1	1.2	1.289		1.55		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Ladies toilet	sqm	1	1.2	1.489		1.79		
	Basic Rate							1210.00	
	Area weightage 8%							96.8	
	Total						**3.33**	**1306.80**	**4356.35**
13	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 Pg No 108,Item No14.41.2								
	Wall Cladding								
	Ground Floor								
	Gents toilet	Sqm	1	11.0		2.1	23.01		
	Ladies toilet	Sqm	1	11.8		2.1	24.69		
	lab	Sqm	1	24.6		2.1	51.71		
	dressing room	Sqm	1	23.8		2.1	50.02		
	Doctor Consult room	Sqm	1	14.1		2.1	29.61		
	Waiting area	Sqm	1	12.0		2.1	25.19		
	Stairs wall	Sqm	1	8.9		2.1	18.76		
	Lift wall	Sqm	1	8.4		2.1	17.58		
	Deduction								
	D3	Sqm	-4	0.75		2.1	-6.3		
	W1	Sqm	-7	1.5		1.5	-15.75		
	Basic Rate							1632.00	
	Area weightage 8%							130.56	
	Total						**218.53**	**1762.56**	**385165.19**
14	Providing and fixing 65mmx90mm GRP Doorframe fabricated using E-Glass Chopped Strand Mat (CSM). U.V-stabilized Isopthalic Gelcoat and Isopthalic resin. The thickness of the GRP skin shall not be less than 2.0 mm. The doorframe consists of four segmens, which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screws. The GRP frame shall be provided with wooden reinforcement of 6 locations fro high screw holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam/Plaster with fibre reinforcement. Six Numbers of 260mmx25mmx5mm size S shaped M.S. flat hold fast shall be provided with the frame. Page No. 63, Item No. 9.95								
	Ground Floor								
	D3	m	4	5.70			22.80		
	Basic rate							450.00	
	Area weightage 8%							36.00	
	Total						**22.80**	**486.0**	**11080.80**
15	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, Pg No. 53, Item No. 9.15								
	Ground Floor								
	D2	Sqm	3	0.9		2.1	2.70		
	Basic rate							4722.00	
	Area weightage 8%							377.76	
	Total						**2.70**	**5099.76**	**13769.35**
	Head Room								
	D2	Sqm	1	0.9		2.1	0.90		
	Basic rate							4722.00	
	An additional rate of Rs.4.00/sqm per floor may be added for every additional floor							4.00	
	sub total							4726.00	
	Area weightage 8%							378.08	
	Total						**0.90**	**5104.1**	**4593.67**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
16	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding cost of fixtures and inclusive of supply of shutters to respective work spot. P.No.62, I.No.9.94								
	Ground Floor								
	D3	Sqm	4	0.75		2.100	6.30		
	Basic rate							3800.00	
	Area weightage 8%							304.00	
	Total						**6.30**	**4104.0**	**25855.20**
17	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications. Pg no:121.Item no:15.60.1								
	Ground Floor								
	For Door frames								
	D	Sqm	1	7.8	0.15		1.17		
		Sqm	1	7.8	0.125		0.975		
	D2	Sqm	3	6	0.1		1.8		
		Sqm	3	6	0.075		1.35		
	Basic rate							97.00	
	Area weightage 8%							7.76	
	Total						**5.30**	**104.76**	**554.70**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
18	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality.Pg No.35 Item No.7.11.2								
	Ground floor								
	W1	Sqm	7	1.50		1.50	15.75		
	V	Sqm	4	0.75		0.60	1.80		
	Basic Rate							4435.00	
	Area weightage 8%							354.8	
	Total						**17.55**	**4789.80**	**84060.99**
19	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications. Pg 45 Item no.7.38								
	Ground Floor								
	stair case railing	**Sqm**	**1**	**18.6**		**0.9**	16.74		
	Basic Rate							6021.00	
	Area weightage 8%							481.68	
	Total						**16.74**	**6502.68**	**108854.86**
20	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.page no120 item no15.53.1								
	External Paint								
	Ground Floor								
	Long Wall	Sqm	1	12.047		3.3	39.8		
		Sqm	1	10.364		3.3	34.2		
	Short wall	Sqm	1	7.096		3.3	23.4		
		Sqm	1	3.1		3.3	10.2		
		Sqm	1	4.721		3.3	15.6		
	Chejja								
	W1	Sqm	3	1.8	0.6		3.2		
		Sqm	3	3		0.1	0.9		
	D	Sqm	-1	1.8		2.1	-3.78		
	W1	Sqm	-7	1.5		1.5	-15.75		
	V	Sqm	-4	0.75		0.6	-1.8		
	Basic rate							89.00	
	Area weightage 8%							7.12	
	Total						**105.99**	**96.12**	**10187.99**
	Head Room								
	Long Wall	Sqm	2	5.8		3	34.8		
	Short wall	Sqm	2	4.6		3	27.6		
	Deduction								
	D2	Sqm	-1	0.9		2.1	-1.89		
	Basic rate							89.00	
	An additional rate of Rs.4.00/sqm per floor may be added for every additional floor							4.00	
	sub total							93.00	
	Area weightage 8%							7.44	
	Total						**60.51**	**100.4**	**6077.62**
21	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Pg No 53,Item No9.11								
	Ground Floor								

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	D	Cum	1	7.80	0.100	0.150	0.117		
	D2	Cum	4	5.1	0.1	0.125	0.255		
	Basic rate							87604.00	
	Area weightage 8%							7008.32	
	Total						**0.37**	**94612.3**	**35195.78**
22	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with								
	Ground Floor								
	D	Sqm	1	1.8		2.1	3.78		
	Basic rate							4722.00	
	Area weightage 8%							377.76	
	Total						**3.78**	**5099.76**	**19277.09**
23	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square								
	Ground floor								
	W1	kgs	7			47.25	330.75		
						21kg per sqm			
	Basic Rate							95.00	
	Area weightage 8%							7.6	
	Total						**330.75**	**7.60**	**2513.70**
24	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface								
	Painting for Grill Works	Sqm	7	1.5		1.5	15.75		
	Basic rate							95.00	
	Area weightage 8%							7.60	
	Total						**15.75**	**102.60**	**1615.95**

Sump									
Sl No	**Description of Item**	**Unit**	**No**	**L**	**B**	**D**	**QTY**	**Rate**	**Amount**
25	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b) / 2.3.5 Pg No 6,Item No 2.4								
	For sump	cum	1	4.3	3.3	1.90	26.96		
	Basic rate							449.00	
	Area weightage 8%							35.92	
	Total						**26.96**	**484.92**	**13073.93**
26	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3								
	For sump	Cum	1	4.30	3.30	0.10	1.42		
	Basic rate							5102.00	
	Area weightage 8%							408.16	
	Total						**1.42**	**5510.16**	**7818.92**
27	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 16, Item No 4.28								
	Bottom slab	Cum	1	15.2		0.15	2.28		
	Sump walls	Cum	4	4.3		1.8	30.96		
		Cum	4	3		1.8	21.60		
	Basic rate							258.00	
	Area weightage 8%							20.64	
	Total						**54.84**	**278.64**	**15280.62**
28	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Specification No. KBS 4.6.2 page no.16 item no 4.29.2								
	Cover slab	Sqm	1	4.3	3.3		14.19		
	Basic rate							400.00	
	Area weightage 8%							32.00	
	Total						**14.19**	**432.00**	**6130.08**

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
29	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.10								
	For sump								
	Bottom slab	Cum	1	4.30	3.30	0.15	2.13		
	Sump walls	Cum	2	4.30	0.15	1.80	2.32		
		Cum	2	3.00	0.15	1.80	1.62		
	Cover slab	Cum	1	4.30	3.30	0.15	2.13		
	Basic rate							5812.00	
	Area weightage 8%							464.96	
	Total						**8.20**	**6276.96**	**51464.80**
30	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2								
	Sump	Cum					8.20		
		kg	Steel assumed 125 Kg/Cum of Concrete				1024.88		
	Basic rate	Tonne					**1.02**	70966.00	
	Area weightage 8%							5677.28	
	Total	**tonne**					**1.02**	**76643.28**	**78549.78**

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
31	KSRB 12-6.1 : Providing 20mm square M.S footrest and fixing in manhole Nos 232.00 with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6Pg No. 75 item no. 11.44								
	For sump	No.s	4				4.00		
	Basic rate							276.00	
	Area weightage 8%							22.08	
	Total						**4.00**	**298.08**	**1192.32**
32	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 136,Item No17.4								
	EARTH	Cum	From Item No.1				26.96		
	unloading item	Cum						57	
	Basic rate for haulage of materials as per item No. 17.4	t.km	For surface roads exluding Basic rate loading & unloading					2	
	Average Weight of earth (1.28 Tonne/cum.) .)	For2Kms =2x1.28x2						5.12	
	Basic rate							62.12	
	Area weightage 8%							4.97	
	Total						**26.96**	**67.09**	**1808.80**
33	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification. page no 69 item no 10.5.1								
	For sump								
	Bottom slab	Sqm	1	4.3	3.3		14.19		
	Sump walls	Sqm	2	4.3		1.8	15.48		
		Sqm	2	3		1.8	10.8		
	Basic rate							526.00	
	Area weightage 8%							42.08	
	Total						**40.47**	**568.08**	**22990.20**

PLUMBING WORKS

Sl No	Description	Units	Rate(RS.)	Area Weightage 8%	Total Rate (RS.)	Quantity	Amount (RS.)
34	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials,labour charges, HOM of acquirements and testing complete as per specifications.For Rain water pipe.						
a	do - 110 mm dia	m	434	34.72	468.72	30	14061.6
b	do- 160mm dia	m	853	68.24	921.24	23	21188.52
35	Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 600x600mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-	Nos.	**8490.00**	679.20	9,169.20	4	36676.8
36	KSRB-13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 Litre capacity) as per IS 12701 1996. Specification No. KBS 13.22 page no 96 item no 13.78	Each	6828	546.24	7,374.24	2	14748.48
37	KSRB-13-6.1-2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS 13.2.2/ 13.3 page no 93 item no 13.24	Each	173	13.84	186.84	12	2242.08

38	KSRB-13-6.2-2 : Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS 13.2.2/ 13.3 page no 93 item no 13.27	Each	141	11.28	152.28	5	761.4
39	KSRB-13-6.3-2 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS 13.2.6/ 13.3 page no 93 item no 13.33	Each	336	26.88	362.88	2	725.76
40	KSRB-13-6.6-1 : Providing and fixing unplasticised PVC connection pipe with brass union 15mm nominal bore 450 mm length of PVC connection including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS page no 94 item no 13.47	Set	264.00	21.12	285.12	5	1425.6
41	KSRB-13-7.1-1 : Providing and fixing in position 40mm nominal bore non return valve vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS 13.2.10/ 13.13	Nos					
a	KSRB 13.59: do- 25mm dia	Nos	475	38.00	513.00	3	1539
b	KSRB 13.60: do- 32mm dia	Nos	747	59.76	806.76	3	2420.28
42	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,)						
b	20mm nominal OD pipes	m	235	18.80	253.80	20	5076
c	25mm nominal OD pipes	m	293	23.44	316.44	22	6961.68

ELECTRICAL WORK

Sl.no	SR book page no.	SR book item no.	Description of Works	Unit	Qty	SR Rate Rs.Ps	Amount, Rs.Ps
43			Point wiring using copper wire without switch (Class A material). Supplying and wiring adopting loop system in existing PVC conduit/casing capping using 2X1.5Sqmm(phase &Netural) &1X1.0 Sqmm (Earth Wire) FRLSmultistrand PVC insulated ,2x1.5sqmm copper confirming to the GTP With a 6Amps flusg type SP control switch shall be fixed on the existing plastic sheet / gand box .the other end of the wire shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet.				
a	Pg 5	Item 2.1.1	**Short point upto 3m**	**Point**	20	200.00	4000
b	Pg 5	Item 2.1.2	**Medium point above 3m - 6m**	**Point**	15	275.00	4125
44	Pg 2	Item 1.2	Concealed Conduit System - Supplying heavy gague PVC conduit pipe 20/25/32 mm dia 2mm thick confirming to IS 2509 with suitable size bends metal/pvc junction boxes, abhesive paste ets, and **running befour concreting and slab.** The conduit should de tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fisg wire whereever necessary				
a	Pg 2	Item 1.2.1	**19/20mm dia, 2mm thick**	**Rm**	120.0	40.00	4800
b	Pg 2	Item 1.2.2	**25mm dia, 2mm thick**	**Rm**	175	53.00	9275
45	pg 2	item 1.3	**Groove cutting :** Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.				
a	Pg 2	Item 1.3.1	**19/20mm dia, 2mm thick**	**Mtr**	50	51.00	2550
b	Pg 2	Item 1.3.2	**25mm dia, 2mm thick**	**Mtr**	65	54.00	3510
46	pg 9	item 3.4	Supplying and flush modular poweder coated / galvanized metal box suitable for mounting modular switch plates. the box should be firmil flush mounted after due groove cutting in brick /stone/C.C wall				
a	Pg 9	item 3.4.1	**1 - 3 Way**	**Each**	18	95.00	1710
b	Pg 9	item 3.4.2	**4 - 5 Way**	**Each**	15	105.00	1575
47			Wiring for lighting/power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694: confirming to Latest amendements.				
a	Pg 6	Item 2.3.2	**1.5sqmm**	**Rm**	120	20.05	2406
b	Pg 6	Item 2.3.3	**2.5sqmm**	**Rm**	195	32.00	6240
c	pg 6	Item 2.3.4	**4sqmm**	**Rm**	50	45.00	2250
48	Pg 3	Item 1.12	Supplying and fixing Metal Fan Box with Round Hook	**Nos**	8	85.00	680
						Total	**1601512.8**
						GST Charges (12% of estimated cost)	**192181.5**
						Bescom charges and Miscellaneous rounding off	**6305.6**
						Sub Total	**1800000.0**

Rupees Eighteen lakh Only

TECHNICAL SANCTION
Accorded For Rs. 18.00 Lakhs only
Head of A/c. P3726
Div. Ref. No. 84 Date 01/12/2020
EE(BTP)

Administrative Approval
Accorded For Rs. 18 Lakhs only
Head of A/C. P3726
CER NO: 26 Dt: 23.11.2020

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019, PWD Electrical 2019-20,PRED 2019-20, SE-RDED approved Rate and Issued Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP